**WOW Grant Collaboration Project**

Subject(s)/Course(s): Math, Science

Grade Level(s): 8 - 11

Collaborative Partners: Erin Bergeleen, Karla Faehnrich, Briana Wirth, and Gloria Vavra

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| Standard(s): |  | |
| Math:  9-12.M.1.1.Students are able to choose appropriate unit label, scale, and precision.  9-12.N.2.1. Students are able to add, subtract, multiply, and divide real numbers including integral exponents.  9-12.N.3.1. Students are able to use estimation strategies in problem situations to predict results and to check the reasonableness of results.  9-12.S.1.1. Students are able to draw conclusions from a set of data.  9-12.S.1.3. Students are able to represent a set of data in a variety of graphical forms and draw conclusions.  **9-12.S.1.2A.** Students are able to analyze and evaluate graphical displays of data.  Technology:  **9-12.NC.4**.1 Compare and contrast other problem-solving and decision-making methods.  **9-12.CT.1.1** Incorporate knowledge and enhanced usage skills to create a product.  **9-12.CT.2.1** Utilize a virtual learning environment as a strategy to build 21st century learning skills.  **9-12.CT.3.1** Select and apply technology tools for research, information analysis, problem solving, and decision making in content learning.  **9-12.CP.1.1** Collaborate with external peers, experts, and others by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works.  **9-12.CP.2.1** Adapt delivery of communication based on available information technologies. | | |
| 21st Century Skills Addressed:  Collaboration – Each group of students will work to enhance the collection method and descriptions.  Collaboration – Wagner and Wessington Springs student s will develop a delivery method to share  and compare results.  Cooperation – Students will work in groups to develop ways to categorize and collect data on junk mail.  Communication – Students will communicate through email and hopefully Google docs.  Organization – Students will come up with a way to organize and share data in a meaningful way.  Problem Solving - Students will develop methods to solve problems connected with collection and delivery of information.  Social Responsibility – Students will in a respectful and appropriate manner communicate within  their school, and with the partner school during the project.  Technology Fluency – Students will utilize technology to create the spreadsheet, manipulate the spreadsheet, use a delivery method to share results, and show knowledge of computer programs such  as Google docs, word, and excel, along with the video and audio presentations. | | |
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| Method of Collaboration (both teacher and student): | | |
| K12 email, face to face meeting, Google docs, wikis, blogs | | |
| Technology Integrated into Project:  Excel Spreadsheet, Word, Google Docs, Email, Video/audio Presentations | | |
| Students will know…. | | Student will be able to….. |
| How to use Google maps to figure distance.  How to manipulate a spreadsheet to include formulas.  How to Classify Mail.  How to run Flip camera.  How to upload presentations to internet via Wiki.  How to interpret data. | | **Determine the most appropriate graphical form (pictorial representations) to display (represent) a data set (of numbers or information).**  **Present information using a flip cam and wiki space.** |
| **Assessment Evidence** | | |
| What evidence will show that students understand content/skills of lesson/unit?  The students will present their findings via a video/audio presentation using a flip cam and Wikispace.  **Students from Wessington Springs presented their materials using a flip cam and power point slides. Students from Wagner presented their findings using a program called xtranormal.**  Students will determine if the program used is correct and suggest changes.  **Wessington Springs students determined that the formula for finding the mileage costs in the website we used was incorrect. They determined we would have to have more information from the postal service to accurately figure shipping costs.** | | |
| Description of Assessment(s)  Assessment will be based upon the product developed showing the predictions, results, and post project conclusions.  Students shared projects and presentations.  Student developed video/audio presentation to share via wiki. | | |
| **Learning Plan** | | |
| **Learning Plan (**What learning activities will be used to carry out the collaborative project?) | | |

Wessington Springs/ Wagner students will collect and organize data. Collaborate within

the school locations to evaluate data and create a presentation, using many

technology sources. Students will leave feedback to be shared via K12 instructor emails.

Once the presentations have been completed, students will write a short reflection over

their experiences. Reflections will be shared between the collaborative groups.

The part of the plan that did not come together as anticipated was the shared collaboration between the students. In the future, we would need additional meeting times for the advisors of the project, and a more structured plan for collaboration. Many factors entered into this, and even though all goals were not met, the project was still thought provoking, relevant, and standards ased.